

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EPOXY CATALYST  
PRODUCT CODE: CA-41B

HMIS CODES: H F R P  
2\* 3 0 G

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: SIKKEN'S AEROSPACE  
ADDRESS: 20846 SOUTH NORMANDIE AVENUE, TORRANCE, CA 90502  
EMERGENCY PHONE: 213-320-6800 INFORMATION PHONE: 213-320-6800  
DATE PREPARED : 07-22-87 NAME OF PREPARER : BRENT BERGMAN  
REASON REVISED : ORIGINAL

===== SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION =====

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
		ACIH TLV	OSHA PELV	NIOSH PELV		
n-Butyl Acetate	123-86-4	150 ppm	150 ppm		8.0 68F	10
Methyl ethyl ketone	78-93-3	200 ppm	200 ppm		75.0 68F	40
Diethylenetriamine	111-40-0	1 ppm	NOT ESTAB.		0.1 68F	50

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 175 to 405 Deg F SPECIFIC GRAVITY (H2O=1): 0.9  
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER  
V.O.C.: 3.67 LB/GL ( 439 GR/LT)  
SOLUBILITY IN WATER: SLIGHT  
APPEARANCE AND ODOR: BLUE LIQUID IRRITATING ODOR

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 23 Deg F METHOD USED: T.O.C.  
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.7% UPPER: 11.5%

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

Full emergency equipment with self contained breathing apparatus should be worn. During a fire irritating and highly toxic gases (see reactivity data) and smoke are present from decomposition and combustion products.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Under conditions of stagnant air, vapors may build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE  
CONDITIONS TO AVOID

Exposure to temperatures above 200F.

## INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contamination with acids, oxidizing materials, aldehydes and organic halides

## HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, nitrogen oxide and ammonia.

## HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## ===== SECTION VI - HEALTH HAZARD DATA =====

## INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Vapors are irritating and may cause nausea, vomiting and sensitization of the respiratory tract.

## SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Vapors and liquid are irritating and may cause chemical burns. A strong sensitizer which may cause skin rash.

## SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated contact may result in the absorption of harmful amounts of material.

## INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Moderately toxic. Ingestion could cause irritation and possible corrosive action in the mouth, stomach and digestive tract. Vomiting may cause aspiration of the solvents resulting in chemical pneumonia.

## HEALTH HAZARDS (ACUTE AND CHRONIC)

Prolonged or repeated contact with product can result in dry defatted and cracked skin causing increased susceptibility to infection. Over exposure to solvents has been associated with various neurological effects including permanent brain and nervous system damage.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

## MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Asthma and any other respiratory disorders (bronchitis, emphysema, hyperactivity), skin allergies and eczema.

## EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with clean, lukewarm water (low pressure) for at least 15 minutes, occasionally lifting eyelids. Obtain medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse.

Inhalation: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed.

## ===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate the area. Dike or impound spilled material and control further spillage if feasible. Cover spill with sawdust, vermiculite, Fuller's earth or other absorbant.

**WASTE DISPOSAL METHOD**

Waste material should be incinerated or disposed of in accordance with Federal, State and local environment control regulations. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCH.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep away from heat, sparks, and open flame. Ground containers during storage and transfer operations. Store in tightly closed containers to prevent moisture contamination. Ideal storage temperature range is 50-81F (10-27C). Avoid contact with skin and eyes.

**OTHER PRECAUTIONS**

Employee education and training in the safe use of this product should be provided in accordance with OSHA Hazard Communication Standards.

## ===== SECTION VIII - CONTROL MEASURES =====

**RESPIRATORY PROTECTION**

Use a respirator that is recommended or approved for use in an organic solvent containing environment (air purifying or fresh air supplied). Observe OSHA regulations (29 CFR 1910.134) for respirator use. Where airborne concentration is unknown, the use of a positive pressure supplied air respirator is mandatory.

**VENTILATION**

Exhaust ventilation should be of explosion proof design sufficient to maintain the airborne concentration of solvents and amine below their respective TLV concentrations.

**PROTECTIVE GLOVES**

Chemical resistant (Neoprene) gloves

**EYE PROTECTION**

Safety glasses, splash goggles or face shield. Contact lenses should not be worn

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area protected only by the cream to a minimum.

**WORK/HYGIENIC PRACTICES**

Safety showers and eyewash stations should be available. Educate and train employees in the safe use of the product.

## ===== SECTION IX - DISCLAIMER =====

**DISCLAIMER**

The information contained herein is based on the data available to us and is believed to be correct. However, Sikkens Aerospace makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Sikkens Aerospace assumes no responsibility for injury from the use of the product described herein.